

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

USPTO Form 1449/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Sheet 1 of 1

PTO/SB/08A (08-03)

Approved for use through 07/31/2008. OMB 0851-0031

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Complete if Known

Application Number	10/722,955
Filing Date	Nov. 26, 2003
First Named Inventor	Halbert, Alan P.
Art Unit	2831
Examiner Name	
Attorney Docket Number	AH1

U. S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
AL		US- 6,100,469	08-08-2000	Jorgensen et al.	Fig. 2
AL		US- RE 38,120	05-20-2003	Bordwell et al.	
		US- RE 34,603	05-10-1994	Caison et al.	
		US- RE 33,147	01-16-1990	Reiker	
		US- 6,602,079	08-05-2003	Chiriku et al.	
		US- 6,600,102 B1	07-29-2003	Wu	
		US- 6,598,846	07-29-2003	Lackey, Jr.	
		US- 6,597,129	07-22-2003	Newman	
		US- 6,595,664	07-22-2003	Bucher et al.	
		US- 6,595,479	07-22-2003	Johnson et al.	
		US- 6,595,476	07-22-2003	Edwards	
		US- 6,590,155	07-08-2003	Vrame et al.	
		US- 6,588,920	07-08-2003	Agro	
		US- 6,588,711	07-08-2003	Onishi	
		US- 6,586,679	07-01-2003	Bashford	
		US- 6,586,672	07-01-2003	Kobus et al.	
		US- 6,582,106	06-24-2003	Jamison	
		US- 6,578,321	06-17-2003	Layne	
AL		US- 6,573,446	06-03-2003	Umstead et al.	

FOREIGN PATENT DOCUMENTS

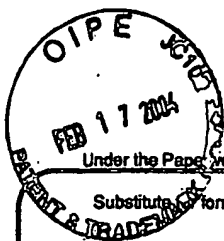
Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	T ⁶
		Country Code ³ Number ⁴ Kind Code ⁵ (if known)				

Examiner Signature	Angel R. Estrada	Date Considered	9/1/04
-----------------------	------------------	--------------------	--------

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹ Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.18 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.



PTO/SB/08A (08-03)

Approved for use through 07/31/2008. OMB 0851-0031

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute form 1449/PTO

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Complete if Known

Application Number	10/722,955
Filing Date	Nov. 26, 2003
First Named Inventor	Halbert, Alan P.
Art Unit	2831
Examiner Name	
Attorney Docket Number	AH1

Sheet of **U. S. PATENT DOCUMENTS**

Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
AE		US- 6,545,216	04-08-2003	Bell et al.	
AE		US- 6,541,720	04-01-2003	Gerald et al.	
		US- 6,517,216	02-11-2003	Cercone et al.	
		US- 6,513,959	02-04-2003	Serizawa et al.	
		US- 6,505,960	01-14-2003	Schubert et al.	
		US- 6,503,099	01-07-2003	Kerr Jr.	
		US- 6,501,021	12-31-2002	Whitener et al.	
		US- 6,494,682	12-17-2002	Blateri et al.	
		US- 6,491,270	12-10-2002	Pfaller	
		US- 6,465,736	10-15-2002	Spadaro	
		US- 6,394,857	05-28-2002	Crochet	
		US- 6,355,883	03-12-2002	Gretz	
		US- 6,303,859	10-16-2001	Reiker	
		US- 6,291,768	09-18-2001	Reiker	
		US- 6,281,439	08-28-2001	Reiker	
		US- 6,242,696	06-05-2001	Reiker	
		US- 6,207,898	03-27-2001	Reiker	
		US- 6,207,897	03-27-2001	Reiker	
AE		US- 6,207,894	03-27-2001	Reiker	

FOREIGN PATENT DOCUMENTS

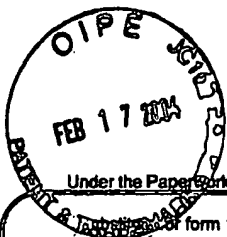
Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	T ⁶
		Country Code ³ Number ⁴ Kind Code ⁵ (if known)				

Examiner Signature	Angel R. Estrada	Date Considered	9/1/04
--------------------	------------------	-----------------	--------

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹ Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.18 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.



PTO/SB/08A (08-03)

Approved for use through 07/31/2008. OMB 0851-0031

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

USPTO form 1449/PTO

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Sheet

of

Complete if Known

Application Number	10/722,955
Filing Date	Nov. 26, 2003
First Named Inventor	Halbert, Alan P.
Art Unit	2831
Examiner Name	
Attorney Docket Number	AH1

U. S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
AE		US- 6,204,450	03-20-2001	Reiker	
AE		US- 6,198,045	03-06-2001	Roesch	
		US- 6,191,362	02-20-2001	Gretz	
		US- 6,173,935	01-16-2001	Gretz	
		US- 6,152,413	11-28-2000	Gretz	
		US- 6,107,568	08-22-2000	Schnell et al.	
		US- 6,098,945	08-08-2000	Korcz	
		US- 6,096,974	08-01-2000	Reiker	
		US- 6,095,660	08-01-2000	Moriyama et al.	
		US- 6,036,154	03-14-2000	Pearce	
		US- 5,988,421	11-23-1999	Jorgensen	
		US- 5,981,874	11-09-1999	Reiker	
		US- 5,965,845	10-12-1999	Reiker	
		US- 5,954,304	09-21-1999	Jorgensen	
		US- 5,950,853	09-14-1999	Jorgensen	
		US- 5,947,436	09-07-1999	Bucher et al.	
		US- 5,939,671	08-17-1999	Gretz	
		US- 5,909,006	06-01-1999	Reiker	
AE		US- 5,883,331	03-16-1999	Reiker	

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	T ⁶
		Country Code ³ Number ⁴ Kind Code ⁵ (if known)				

Examiner
Signature

Angel R. Estrada

Date

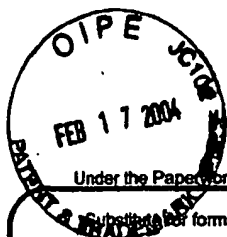
Considered

9/1/04

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 809. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹ Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-788-9199) and select option 2.



PTO/SB/08A (08-03)

Approved for use through 07/31/2006. OMB 0651-0031

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1448/PTO

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Complete if Known

Application Number	10/722,955
Filing Date	Nov. 26, 2003
First Named Inventor	Halbert, Alan P.
Art Unit	2831
Examiner Name	
Attorney Docket Number	AH1

Sheet

of

U. S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
AE		US- 5,860,548	01-19-1999	Kerr, Jr.	
AE		US- 5,857,581	01-12-1999	Jorgensen	
		US- 5,845,886	12-08-1998	McCormick	
		US- 5,824,952	10-20-1998	Bordwell et al.	
		US- 5,710,392	01-20-1998	Bordwell et al.	
		US- 5,661,264	08-26-1997	Reiker	
		US- 5,628,418	05-13-1997	Deschamps et al.	
		US- 5,619,263	04-08-1997	Laughlin et al.	
		US- 5,606,147	02-25-1997	Deschamps et al.	
		US- 5,592,788	01-14-1997	Corridon	
		US- 5,522,577	06-04-1996	Roesch	
		US- 5,505,420	04-09-1996	Brown	
		US- 5,503,359	04-02-1996	Patterson	
		US- 5,435,514	07-25-1995	Kerr Jr.	
		US- 5,423,507	06-13-1995	Florent et al.	
		US- 5,407,088	04-18-1995	Jorgensen et al.	
		US- 5,393,026	02-28-1995	Deschamps et al.	
		US- 5,234,119	08-10-1993	Jorgensen et al.	
AE		US- 5,183,233	02-02-1993	LaPalomto	

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	T ⁶
		Country Code ³ -Number ⁴ -Kind Code ⁵ (if known)				

Examiner
Signature

Angel R. Estrada

Date

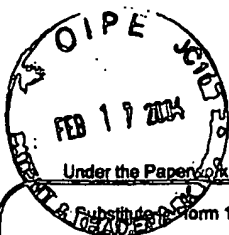
Considered

9/1/04

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 809. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹ Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 801.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.



Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Sheet

of

Complete if Known

Application Number 10/722,955
Filing Date Nov. 26, 2003
First Named Inventor Halbert, Alan P.
Art Unit 2831
Examiner Name
Attorney Docket Number AH1

U. S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
AE		US- 5,085,392	02-04-1992	Perna	
AE		US- 5,044,582	09-03-1991	Walters	
		US- 5,024,412	06-18-1991	Hung et al.	
		US- 5,009,383	04-23-1991	Chapman	
		US- 4,988,067	01-29-1991	Propp et al.	
		US- 4,954,667	09-04-1990	Jorgensen et al.	
		US- 4,919,292	04-24-1990	Hsu	
		US- 4,909,405	03-20-1990	Kerr Jr.	
		US- 4,892,211	01-09-1990	Jorgensen	
		US- 4,880,128	11-14-1990	Jorgensen	
		US- 4,874,905	10-17-1989	Schnell et al.	
		US- 4,788,383	11-29-1988	Caison	
		US- 4,684,092	08-04-1987	Reiker	
		US- 4,666,055	05-19-1987	Lewis	
		US- 4,645,158	02-24-1987	Manning	
		US- 4,538,786	09-03-1985	Manning	
		US- 4,513,994	04-30-1985	Dover et al.	
		US- 4,513,940	04-30-1985	Alperin et al.	
AE		US- 4,494,296	01-22-1985	Grimes	

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	T ⁶
		Country Code ³ -Number ⁴ -Kind Code ⁵ (if known)				

Examiner
Signature

Angel R. Estrada

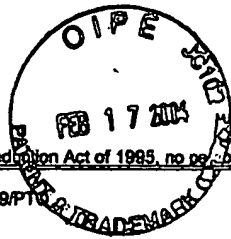
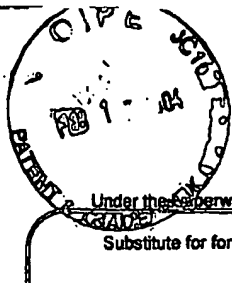
Date
Considered

9/1/04

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹ Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.



PTO/SB/08A (08-03)

Approved for use through 07/31/2006. OMB 0651-0031

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449/PTO

Complete if Known**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Sheet

of

Application Number	10/722,955
Filing Date	Nov. 26, 2003
First Named Inventor	Halbert, Alan P.
Art Unit	283
Examiner Name	
Attorney Docket Number	AH1

U. S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
AE		US- 4,463,923	08-07-1984	Reiker	
AE		US- 4,410,160	10-18-1983	Alperin et al.	
		US- 4,405,111	09-20-1983	Lennon	
		US- 4,357,506	11-02-1982	Breining	
		US- 4,062,512	12-13-1977	Arnold	
		US- 4,050,603	09-27-1977	Harris et al.	
		US- 3,987,992	10-26-1976	Foflygen	
		US- 3,828,315	04-15-1975	Blush	
		US- 3,724,795	04-03-1973	Callanan	
AE		US- 3,474,994	10-28-1969	Swanquist	
		US-			
		US-			
		US-			
		US-			
		US-			
		US-			
		US-			
		US-			
		US-			
		US-			

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	T ⁶
		Country Code ³ Number ⁴ Kind Code ⁵ (if known)				

Examiner Signature	Angel R. Estrada	Date Considered	9/1/04
-----------------------	------------------	--------------------	--------

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹ Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.